

Printing date:25.09.06

Reviewed on: 15/09/06

1. Identification of substance

Trade name: WMF / SchaererLiquid descaling agent

Use of the preparation: Liquid descaling agent for coffee machines.

Manufacturer: WMF Aktiengesellschaft
Eberhardstrasse
D-73312 Geislingen (Steige)

Phone: +49 7331 251 Fax: -45387 e-mail: info@wmf.de

Informing department: Product safety department of manufacturer

Emergency information: +49 7331 251

2. Composition / Data on components

Description:
Liquid cleaner consisting of anorganic acids with agents for metal protection.

Dangerous components:

| CAS-No. | Designation | % | Index | R-phrases |
|------------|-----------------|------|-------|-------------|
| 5329-14-6 | Sulfamic Acid | 5-15 | Xi | 36/38-52/53 |
| 13598-36-2 | Phosphonic Acid | <1 | C | 34 |

3. Hazard identification

Hazard designation:
none

Information pertaining to particular dangers for man and environment:
Not necessarily while intended handling. Can affect attractive on eyes and mucous membrane.

4. First aid measures

General information: none

After inhalation: none

After skin contact: Wash off with plenty of water.

After eye contact: Rinse immediately with plenty of water. If necessary consult a physician.

After swallowing: Rinse mouth with water and drink plenty of it. Consult a physician and show label or this paper. Do not supply vomiting.

5. Provision in case of fire

Extinguishing media: Harmonize to environs.

Unsuitable extinguishing media: Harmonize to environs.

Special risks: none

Special health protection: none

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6. Spill or leak procedures

Personal protective measures: Eye protection

Instructions for environment: Pay attention to waste legislation. Do not leave into surface or ground water

Means for removal: Soak up with water.

7. Storage and handling

Handling

Handling precautions: Wash after handling, especially before eating, drinking and smoking. Avoid eye contact. Keep away from children.

Protection against fire and explosion: none

Storage

Technical protective measures: Keep containers firmly locked.

Industrial hygiene: There are no restrictions in the locked original bundle

Storage classification-Germany: 3A (VCI)

Fire classification-Germany: not applicable

8. Limitation of exposure an personal protective equipment

Further instructions for technical protective measures: see under point 7

Limiting values of components which have to be inspected by working:

| CAS-No. | Designation | % | Type | Value | Unity |
|---------|-------------|---|------|-------|-------|
| none | | | | | |

Personal protective equipment

Working hygiene: Take care like handling other chemicals.

Respiratory protection: none

Skin protection: none

Eye protection: recommended

9. Physical and chemical data

Form: liquid
Colour: colourless
Odour: without any smell

Point 9 is continued on page 3!

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9. Physical and chemical data (continuation)

| | | | |
|------------------------------|----------------------------|--------------|--------------------|
| Change: | melting point | 0 °C | DIN 51583 |
| | boiling temperature | appr. 100 °C | DIN 51751 |
| pH value: | at 20°C | appr. 1 | electrometer |
| Flash point: | | n.a. °C | |
| Ignition temperature: | | n.a. | |
| Spontaneous ignition: | | none | |
| Explosion hazard: | | none | |
| Vapour pressure: | at 20°C | no data | mbar |
| Density: | at 20°C | 1,08 | g/cm ³ |
| Solubility in | water | complete | |
| | organic solvents | <0,1 | % |
| Viscosity: | at 20°C | 30 | mm ² /s |
| | | | DIN 53211 |
| Contents of solvents: | organic | <0,1 | % |
| | water | appr. 85 | % |
| Contents of solids: | at 20°C | appr. 15 | % |

10. Stability and reactivity data

Conditions to be avoided: Do not mix with other cleaners or chemicals.**Hazardous decomposition products:** none

11. Information on toxicity

| | |
|---|--|
| Akute toxicity: | LD50-Value: None information known. |
| Primary irritation effect on skin: | not irritant |
| Primary irritation effect after eye contact: | slightly irritant |
| Allergic effects: | None information known. |
| Further toxicological informations: | None information known about causing cancer and influences on inheritance. |

12. Information on ecological effects

Relevant components of formulation: sulphamic acid

Components of product get biologically decomposed according to the legislation. The product is declared as weakly endangered to water. Using the product appropriate, there will be no influence to fish toxicity.

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13. Waste disposal

Product

Recommendation: Only dispose into drains according to waste legislation.

Package

Recommendation: Only dispose clean containers. Cleaner: water

14. Transport

Transport on land

ADR/RID-class/number/character: no regulations**UN No.:****Designation:**

Transport on sea

IMDG-code/page: no regulations**UN No.:****Code of package:****EMS No.:****MFAG:**

Transport by flight

IATA Code: no regulations**UN/ID-No.:****Technical name:**

15. Regulations

Regulations according EC

Danger symbol:**Components which designate danger symbol:** none
glycoles, terpenes**R-phrases:** none**S-phrases:** S (1/2) Keep under catch and for children inaccessible.

National regulations

Regulation for Switzerland: BAG T 671184; Toxic Class: 5

15. Further information

Safety-relevant changes: 15. Regulation for Switzerland**R-Sätze der Inhaltsstoffe:** 36/38 Irritant to eyes and skin.
52/53 Harmful for water organisms. In waters there may be harmful effects while longer term.
34 Causes caustic diseases.

This general description of the product serves to improve the safety information based on our present knowledge. It does not include assurance of certain properties.

33 2973 2000 SDB Flüssigkalk englisch; Ausgabe 03; Blatt 3 Seite 4 v. 4;
05.10.2006; Änd.Nr. 06 428; Hierath (Ersatz für 3329732000 Blatt 4 Ausgabe 02)